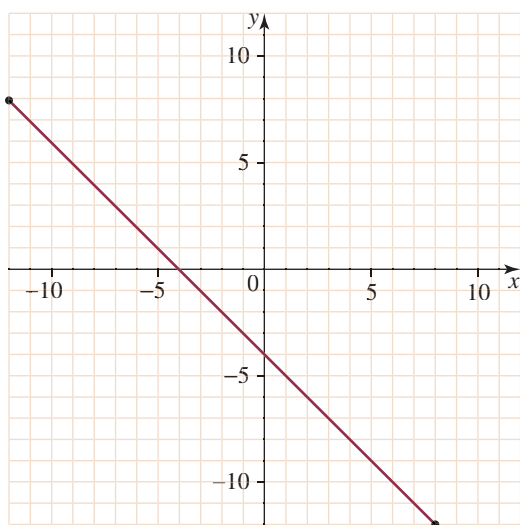


10 QUICK QUESTIONS

CHAPTER 1

Linear functions

- 1 Solve $\frac{-5y}{12} = 3$.
- 2 Make x the subject for the equation $\sqrt{x^2 + y} = R$.
- 3 Determine the gradient and y-intercept of the line with equation $3x + 2y = -5$.
- 4 Solve the inequality $-4x + 3 \leq -2x - 12$.
- 5 State the range of the following.
 $f: [1, 7] \rightarrow R, f(x) = 3x - 7$
- 6 Determine the gradient of the line perpendicular to $4y - 2x = 8$.
- 7 Solve for x in the equation $\frac{2-3x}{5} = \frac{1-x}{2}$.
- 8 State the domain and range, using set notation, for the following function.
 $f: [-3, 7] \rightarrow R, f(x) = x^2 - 2$
- 9 Use set notation to describe the interval shown.



- 10 What is the range of the rule $y = 2x - 3$, where $x \in R^+$?

10 QUICK QUESTIONS — ANSWERS

CHAPTER 1

Linear functions

1 $y = -7\frac{1}{5}$

2 $x = \pm\sqrt{R^2 - y}$

3 $m = -\frac{3}{2}, c = -\frac{5}{2}$

4 $x \geq \frac{15}{2}$

5 $[-4, 14]$

6 $-\frac{1}{2}$

7 $x = -1$

8 $x \in [-3, 7], y \in [-2, 47]$

9 $x \in [-12, 10], y \in [-13, 8]$

10 $y \in \left[\frac{3}{2}, \infty\right]$